Annual Report on Public Water System Violations Vermont Water Supply Division

VERMONT

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January 1, 2003 - December 31, 2003

OF ENVIRONMENTAL

July 1, 2004

INTRODUCTION

Vermont's Department of Environmental Conservation (DEC) is authorized by the U.S. Environmental Protection Agency (EPA) to administer the Public Water Supply System program in the state. DEC's Water Supply Division implements the program. The division's primary goal is to ensure that citizens and visitors of the Green Mountain State have drinking water that is safe for human consumption. To maintain the authority to administer the program (also called primacy), the state has to implement and enforce rules that are at least as stringent as the federal drinking water regulations.

To comply with federal regulations, DEC promulgated the State's Water Supply Rule (Chapter 21 of the Environmental Protection Rules) on September 24, 1992. The rule was revised in 1996, 1999, and again in 2002 to incorporate the 1996 amendments to the federal Safe Drinking Water Act (SDWA). The 1996 amendments strengthened many aspects of the SDWA, including government and water system accountability, and public awareness and involvement. The new "Right-to-know" provisions will give citizens the information they need to make their own health decisions, allow increased participation in drinking water decision-making, and promote accountability at the water system, state, and federal levels.

One of the "Right-to-know" provisions requires states with primacy to prepare an annual Public Water System Compliance Report. The report must include the name and Water System Identification (WSID) number of each public water system that violated the SDWA during the year. The nature of each violation must also be reported, as well as the total number of violations that occurred in the state. The report for the previous calendar year must be submitted to EPA and available to the public by July 1st, annually. Then, EPA must summarize and evaluate the reports submitted by the states in an annual national report.

This document is the State of Vermont's annual Public Water System Compliance Report for calendar year 2003. In addition to information on SDWA violations, the report includes an overview of the drinking water program and the state's compliance and technical assistance and enforcement activities.

OVERVIEW OF THE DRINKING WATER PROGRAM

Drinking Water Program Regulations

The SDWA aims to ensure that public water supplies meet national standards that protect consumers from harmful contaminants in drinking water. EPA regulations under the SDWA apply to public water systems. Public water systems, which can be publicly or privately owned, provide drinking water to at least 25 people or 15 service connections for at least 60 days per year. The regulations divide public water systems into three categories (Figure 1) based on

characteristics such as where they serve customers and how often they serve the same people. Water systems with different characteristics are then subject to different regulations.

The national primary drinking water regulations require public water systems to meet limits for contaminants in drinking water, use specific treatment techniques, and monitor, report, and keep records to ensure that drinking water is safe for human consumption. The limits on contaminant levels, known as Maximum Contaminant Levels (MCLs), set the maximum permissible level of a contaminant in water delivered to a user of a public water system. EPA has set MCLs for more than 80 contaminants. There are MCLs both for contaminants that can cause acute health effects after short-term exposure and for contaminants that can cause chronic health effects after long-term

Figure 1. The three types of public water systems.

- 1. Community Water Systems provide drinking water to year round residents.
- 2. Non-transient Non-community Water Systems serve the same people for more than six months in a year (e.g., schools or factories that have their own water source).
- 3. Transient Non-community Water Systems provide water to places where people do not remain for long periods of time (e.g., campgrounds, restaurants, hotels, and service stations that have their own water source).

exposure. Additional information on the health effects of specific contaminants can be found on the federal EPA website (http://www.epa.gov/safewater). An MCL violation occurs when tests indicate that the level of a contaminant in treated water is above the MCL (Figure 2 lists the main types of violations).

For some regulations, EPA establishes a treatment technique requirement instead of an MCL. Treatment techniques protect drinking water where it is impractical to monitor and determine the level of a particular contaminant. The required treatment techniques are designed to prevent known or anticipated health effects. Treatment technique requirements have been established under both the Surface Water Treatment Rules and the Lead and Copper Rule. A violation of a treatment technique indicates that the system failed to treat water as specified to minimize the presence of potentially harmful contaminants.

EPA also sets monitoring, reporting, and record keeping requirements that public water systems must follow. A monitoring or reporting violation can occur when a public water system either fails to take the required number samples or perform a required analysis, or fails to report the results of an analysis performed in a timely manner as required by law. The SDWA requires the state to report only significant monitoring and reporting violations in their annual Public Water System Compliance Report. A significant monitoring and reporting violation occurs when a public water system collects none of the samples or submits none of the reports required by a particular regulatory provision. A significant monitoring and reporting violation can also occur if a public water system collects fewer than 90% of the samples or submits fewer than 90% of the reports required by the Surface Water Treatment Rules. Public water systems are required to report all monitoring results to the state. The state analyzes the monitoring results, determines

compliance, and reports violations to EPA on a quarterly basis.

The state may grant a public water system a variance or exemption from national primary drinking water standards, provided that the terms of the variance or exemption adequately

protect public health. As provided by the SDWA, variances are available to public water systems that cannot comply with national primary drinking water regulations (due to poor source water quality, or, in the case of small systems, inadequate financial resources). Variances generally allow a public water system to comply with less stringent, but still protective standards based on a specific EPAapproved technology available to the system. An exemption allows the public water system with compelling circumstances (including economic considerations) additional time to achieve compliance with applicable SDWA requirements. An exemption is limited to three years, although extensions of up to six additional

Figure 2. The three main types of drinking water regulation violations.

Maximum contamination level (MCL) violation - occurs when a test indicates that the level of a contaminant in treated water is above EPA or the state's legal limit (states may set standards equal to, or more protective than, EPA's). These violations indicate a potential health risk, which may be immediate or long-term.

Treatment technique violation - occurs when a water system fails to treat its water in the way prescribed by the state or EPA (e.g., by not disinfecting). Treatment technique violations indicate a potential health risk to consumers.

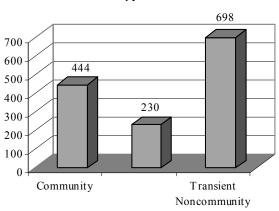
Monitoring and reporting violation - occurs when a system fails to test its water for certain contaminants, or fails to report test results in a timely fashion or provide required public notices. If a water system does not monitor its water properly, no one can know whether or not its water poses a health risk to consumers.

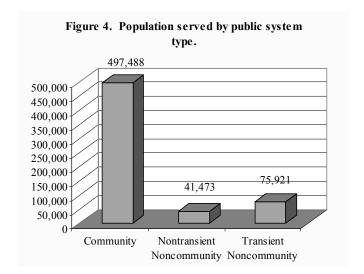
years are available to very small public water systems under certain defined conditions. *Currently, no variances or exemptions have been granted in Vermont.*

Vermont's Public Water Systems

The 1,362 public water systems in Vermont include 440 community, 233 non-transient non-community (NTNCs), and 689 transient non-community (TNCs) systems. The TNCs represent the largest number of systems in the state (Figure 3). Most of these systems are small businesses (e.g., service stations and restaurants) or recreational areas (i.e., campgrounds and parks) that serve a large number of people for a short time. Although TNCs serve a large population, they provide water to the same people for only a short time.

Figure 3. Number of public water systems by type.

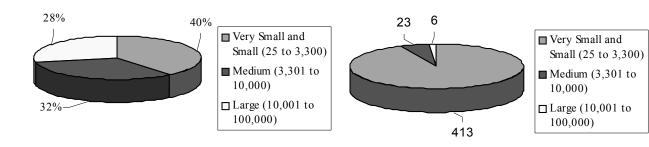




Because people consume most of their drinking water at their places of residence, community systems are the primary focus of the state drinking water program. The State of Vermont is unique in that, compared with the entire nation, a large percentage of the population is served by small and very small (25-500 population served) community systems (i.e., those serving less than 3,300 people). The 415 smaller systems in Vermont supply water to about 40% of the total population served by community systems (Figures 5 and 6). Nationally, only 10% of the total population served by community systems are supplied by smaller systems.

Figure 5. Percent of total population served by community systems by system size.

Figure 6. Number of community systems by system size.



COMPLIANCE AND TECHNICAL ASSISTANCE

The Water Supply Division's primary goals are to protect public health, retain primacy under the federal SDWA, and apply an enforcement strategy designed to encourage compliance with the law. One of the greatest challenges for the state's drinking water program is related to the smaller water systems (those serving 3,300 or fewer people). These systems are faced with increasing costs related to regulatory mandates and the need for basic infrastructure repairs and replacements. Many of Vermont's smaller systems lack a sufficient customer base among which to spread costs, however. The smaller systems typically serve rural communities, often composed of residential customers that are less able to pay substantial amounts for their water (compared to industrial and commercial customers).

Vermont's smaller water systems are developing an increased awareness of the components necessary to providing safe drinking water today and into the future. These components can be grouped into technical, managerial, and financial capabilities. To assist systems, the state is implementing a capacity development program as required by the 1996 amendments to the SDWA. The program's goal is to ensure that no new systems are created that lack capacity to meet drinking water standards now and in the future, and to help existing systems develop sufficient capacity.

In addition to system capacity, the 1996 SDWA amendments include an added emphasis on prevention. Expanding the existing ground water protection strategy, the amendments establish new efforts to assess and protect surface water sources of drinking water. In response to the amendments, the Water Supply Division is implementing the source water assessment program to assess the susceptibility to contamination of each public water system. Each assessment will provide information to serve as the foundation for a source water protection program. Specifically, the assessment will delineate the source water protection area, inventory the significant potential sources of contamination, and help gain a better understanding of the source's susceptibility to contamination. The Water Supply Division also provides other types of technical assistance for public water systems, including the efforts listed in Figure 7.

Figure 7. Types of assistance the Water Supply Division provides to help water systems remain in, and return to, compliance.

- conducting sanitary surveys every 3-5 years
- issuing chemical monitoring waivers, when appropriate
- providing on-site assistance
- publishing newsletters and contributing articles to other newsletters
- sending compliance reminder letters and pre-violation warning letters
- developing a coordinated training calendar
- participating in operator training
- holding public information meetings
- reviewing water systems plans and specifications
- issuing Temporary Operating Permits which identify system deficiencies and include compliance schedules
- providing financial assistance for system improvements through the State Revolving Fund
- using non-profit groups, such as Northeast Rural Water Association, to assist systems
- making telephone calls to remind systems of their requirements
- coordinating with the Waste Management Division for on site investigation/cleanup
- conducting source water assessments and reviewing source protection plans.

VIOLATIONS AND ENFORCEMENT ACTIVITIES

The goals of enforcement actions, which are coordinated by the Water Supply Division's enforcement workgroup, are to deter future violations in order to protect human health. If a public water system violates a federal or state regulation, notification of the violation(s) is sent to the system. The notification usually requires the system to inform the public of the violation and to return to compliance. If the system does not comply, the state will take appropriate enforcement actions.

In most cases, issuance of a Notice of Alleged Violation (NOAV) is the first step in the enforcement process. An NOAV serves as formal notification to the water system that the Water Supply Division believes a violation is occurring or has occurred. If a system fails to comply with the conditions in the NOAV, the enforcement workgroup will evaluate compliance status and decide whether further enforcement action is necessary.

The next enforcement action may be to refer the case to the Agency of Natural Resources Enforcement Division. The Water Supply Division works closely with the Enforcement Division until a final action has been completed. Typically an Assurance of Discontinuance (AOD) is the first course of action taken by the Enforcement Division.

An AOD is an agreement signed by the owner of the water system and the Commissioner

of the Department of Natural Resources which sets milestones and schedules for the system to achieve compliance. When signed by the Environmental Law Judge, it assumes the authority of a court order. The agreement generally includes a penalty for the economic benefit of noncompliance plus a penalty for the actual violation(s).

If the Enforcement Division, in consultation with the Water Supply Division, is unable to settle a violation with an AOD, further enforcement action may include issuance of an Administrative Order (AO). If the Enforcement Division determines that defending an AO will require more resources than are available within the ANR, it may refer the case to the Attorney General's office for further action.

The Water Supply Division's enforcement workgroup concentrates on group enforcement actions (e.g., enforcing against all public community systems for failure to conduct proper monitoring), instead of an all-encompassing approach for individual water systems. Enforcement efforts during 2003 focused on systems that failed to complete ground water under the direct influence of surface water determinations, have a certified operator, meet chemical monitoring and public notification requirements, to do Lead Public Education, or comply with milestones to correct deficiencies outlined in their permit to operate.

In 2003, the Water Supply Division issued Notices of Alleged Violations (NOAVs) to 235 water systems: 46 community systems, 143 transient non-community systems (TNCs), and 22 non-transient non-community systems (NTNCs). Most of the NOAVs issued to community and NTNCs were for failure to conduct water quality monitoring or correct system deficiencies. The NOAVs issued to TNCs were mainly for failure to conduct water quality monitoring.

One AOD with a \$3500 penalty was issued during 2003. Failure to comply with a temporary operating permit was the major reason for the AOD being issued.

Violation Reporting

The state reports violation and enforcement information to EPA quarterly. These reports include public water system inventory information, updates on new and existing enforcement actions, and Maximum Contaminant Level (MCL), major monitoring, and treatment technique violations. In addition, the state prepares an annual compliance report by July 1st for the previous calendar year. This report provides the total numbers of violations during the year for each of the categories required in the Safe Drinking Water Act: 1) MCLs, 2) Treatment Techniques, and 3) Significant Monitoring violations. Figure 8 provides a description of each violation category. The annual report also includes the name and WSID number of the systems with violations.

Figure 8. Description of the violation categories.

1. Maximum Contaminant Level

Under the SDWA the EPA sets national standards on contaminant levels in drinking water to ensure that the water is safe for human consumption. These standards are known as Maximum Contaminant Levels (MCLs). This report includes MCL violations for the regulated chemical contaminants and the microbiological contaminants under the Total Coliform Rule.

2. Treatment Techniques

For some regulations, the EPA establishes treatment techniques in lieu of an MCL to control unacceptable levels of certain contaminants. For example, treatment techniques have been established for viruses, bacteria, and turbidity. This report includes treatment technique violations for Acrylamide and Epichlorohydrin, the Surface Water Treatment Rule, and the Lead and Copper Rule

3. Significant Monitoring Violations

A PWS is required to monitor and verify that the levels of contaminants present in the water do not exceed the MCL. Generally, the larger the population served by a water system, the more frequent the monitoring and reporting (M/R) requirements. If a PWS fails to have its water tested as required, then a monitoring violation occurs. A monitoring violation also includes failure to report test results correctly to the primacy agent.

For this report, significant monitoring violations are defined as any major monitoring violation that has occurred during the specified report interval. A major monitoring violation (except for the Surface Water Treatment Rule) occurs when no samples were taken or no results were reported during a compliance period. A major Surface Water Treatment Rule M/R violation occurs when fewer than 10% of the required samples are taken or no results are reported during a reporting interval. A minor violation occurs when some but not all of the required numbers of samples are taken. This report includes significant monitoring violations for chemical monitoring, the Total Coliform Rule, the Surface Water Treatment Rule, and the Lead and Copper Rule.

Violations Table

The following table reports the number of violations and systems with violations for all public water systems during 2002. The shaded boxes in the table indicate that no data is required for this category. Where no PWS in Vermont is subject to a particular requirement N/A for Not Applicable has been entered. A blank box indicates that this category was not tracked and the information is not available. Note that subtotals indicating the number of systems with violations may not equal the sum of the column because some systems had more than one type of violation (i.e., different SDWIS codes). Values listed in the tables are in milligrams per liter (mg/R), unless otherwise specified. Figure 9, which proceeds the table, provides definitions for some of the key terms used in the table. A list of the PWSs in violation follows the violations table.

Figure 9. Definitions for Violations Table (40 C.F.R., Parts 141, 142, 143 - Federal Drinking Water Regulations).

Maximum Contaminant Level (MCL): The standard set for a contaminant or the highest amount of a contaminant that EPA allows in drinking water. MCLs ensure that drinking water does not pose either a short-term or long-term health risk. MCLs are defined in milligrams per liter (parts per million) unless otherwise specified.

Monitoring: All public water systems are required to sample their water for drinking water contaminants. EPA specifies which water testing methods the water systems must use, and sets schedules for the frequency of testing. A water system that does not follow EPA's schedule or methodology is in violation [40 CFR 141].

Significant Monitoring/Reporting Violations: States must report monitoring violations that are significant as determined by the EPA Administrator and in consultation with the states. For purposes of this report, significant monitoring violations are major violations and they occur when no samples are taken or no results are reported during a compliance period. A major monitoring violation for the surface water treatment rule occurs when at least 90% of the required samples are not taken or results are not reported during the compliance period.

SDWIS Code: Specific numeric codes from the Safe Drinking Water Information System (SDWIS) have been assigned to each violation type included in this report. The violations to be reported include exceeding contaminant MCLs, failure to comply with treatment requirements, and failure to meet monitoring and reporting requirements. Four-digit SDWIS Contaminant Codes have also been included in the chart for specific MCL contaminants.

Treatment Techniques: A water disinfection process that EPA requires instead of an MCL for contaminants that laboratories cannot adequately measure. Failure to meet other operational and system requirements under the Surface Water Treatment and the Lead and Copper Rules have also been included in this category of violation for purposes of this report.

Violation: A failure to meet any state or federal drinking water regulation.

Organic Contaminants

Organic Contaminants are carbon-based compounds, such as industrial solvents and pesticides. These contaminants generally get into water through runoff from crop land, discharge from factories, or contamination from underground fuel storage tanks. EPA has set legal limits on 54 organic contaminants that are to be reported [40 CFR 141.61].

NA-A statewide waiver has been approved for the following chemicals by the EPA: Dibromochloropropane (DBCP), Dalapon, Diquat, Endothall, Glyphosate, and Dioxin.

Ethylene Dibromide testing is required for only groundwater systems. A statewide waiver has been approved for surface water systems by the EPA.

Public water systems are required to certify annually in writing to the Water Supply Division that the combination of percent monomer and treatment chemical dosage does not exceed certain levels when coagulant aids, which contain the monomers Acrylamide and Epichlorohydrin, are used to treat drinking water. Ten out of thirty-four systems failed to provide this certification in 1999.

Significant Monitoring/Reporting violations for contaminants with an * are reported as the VOC and SOC group.

SDWIS Codes		MCL (mg/R)	М	ICLs	Treatment Techniques		Significant Monitoring/Reporting	
			Number of Violations	Number of Systems With Violations	Number of Violations	Number of Systems With Violations	Number of Violations	Number of Systems with Violations
	Organic Contaminants							
	VOC and SOC group						25	13
2981	1,1,1-Trichloroethane*	0.2	0	0				
2977	1,1-Dichloroethylene*	0.007	0	0				
2985	1,1,2-Trichloroethane*	.005	0	0				
2378	1,2,4-Trichlorobenzene*	.07	0	0				

SDWIS Codes		MCL (mg/R)	M	ICLs	Treatmer	nt Techniques	Significant Mo	onitoring/Reporting
			Number of Violations	Number of Systems With Violations	Number of Violations	Number of Systems With Violations	Number of Violations	Number of Systems with Violations
2931	1,2-Dibromo-3-chloropropane (DBCP)	0.0002	NA	NA			NA	NA
2980	1,2-Dichloroethane*	0.005	0	0			0	0
2983	1,2-Dichloropropane*	0.005	0	0			0	0
2063	2,3,7,8-TCDD (Dioxin)	3x10 ⁻⁸	NA	NA			NA	NA
2110	2,4,5-TP*	0.05	0	0				
2105	2,4-D*	0.07	0	0				
2265	Acrylamide				0	0		
2051	Alachlor*	0.002	0	0				
2050	Atrazine*	0.003	0	0				
2990	Benzene*	0.005	0	0				
2306	Benzo[a]pyrene*	0.0002	0	0				
2046	Carbofuran*	0.04	0	0				
2982	Carbon tetrachloride*	0.005	0	0				
2959	Chlordane*	0.002	0	0				
2380	cis-1,2-Dichloroethylene*	0.07	0	0				
2031	Dalapon	0.2	NA	NA			NA	NA

SDWIS Codes		MCL (mg/R)	M	ICLs	Treatmer	nt Techniques	Significant Mo	nitoring/Reporting
			Number of Violations	Number of Systems With Violations	Number of Violations	Number of Systems With Violations	Number of Violations	Number of Systems with Violations
2035	Di(2-ethylhexyl)adipate*	0.4	0	0				
2039	Di(2-ethylhexyl)phthalate*	0.006	0	0				
2964	Dichloromethane*	0.005	0	0				
2041	Dinoseb*	0.007	NA	NA			NA	NA
2032	Diquat	0.02	NA	NA			NA	NA
2033	Endothall*	0.1	0	0				
2005	Endrin*	0.002	0	0				
2257	Epichlorohydrin				0	0		
2992	Ethylbenzene*	0.7	0	0				
2946	Ethylene dibromide*	0.00005	0	0				
2034	Glyphosate	0.7	NA	NA			NA	NA
2065	Heptachlor*	0.0004	0	0				
2067	Heptachlor epoxide*	0.0002	0	0				
2274	Hexachlorobenzene*	0.001	0	0				
2042	Hexachlorocyclopentadiene*	0.05	0	0				
2010	Lindane*	0.0002	0	0				
2015	Methoxychlor*	0.04	0	0				

SDWIS Codes		MCL (mg/R)	M	ICLs	Treatmen	t Techniques	Significant Mon	nitoring/Reporting
			Number of Violations	Number of Systems With Violations	Number of Violations	Number of Systems With Violations	Number of Violations	Number of Systems with Violations
2989	Monochlorobenzene*	0.1	0	0				
2968	o-Dichlorobenzene*	0.6	0	0				
2969	para-Dichlorobenzene*	0.075	0	0				
2383	Total polychlorinated* biphenyls	0.0005	0	0				
2326	Pentachlorophenol*	0.001	0	0				
2987	Tetrachloroethylene*	0.005	0	0				
2984	Trichloroethylene*	0.005	0	0				
2996	Styrene*	0.1	0	0				
2991	Toluene*	1	0	0				
2979	trans-1,2-Dichloroethylene*	0.1	0	0				
2955	Xylenes (total)*	10	0	0				
2020	Toxaphene*	0.003	0	0				
2036	Oxamyl (Vydate)*	0.2	0	0				
2040	Picloram*	0.5	0	0				
2037	Simazine*	0.004	0	0				
2976	Vinyl chloride*	0.002	0	0				

SDWIS Codes		MCL (mg/R)	М	CLs	Treatment Techniques		Significant Monitoring/Reporting	
			Number of Violations	Number of Systems With Violations	Number of Violations	Number of Systems With Violations	Number of Violations	Number of Systems with Violations
2950	Total disinfectant by-products	0.10	0	0			22	8
	Subtotal		0	0			47	21

Inorganic Contaminants

Inorganic Contaminants are non-carbon-based compounds such as metals, nitrates, and asbestos. These contaminants are naturally-occurring in some water, but can get into water through farming, chemical manufacturing, and other human activities. EPA has established MCLs for 15 inorganic contaminants [40 CFR 141.62]. Few inorganic chemicals have been detected in Vermont's drinking water supplies.

Monitoring for Asbestos is required only for systems that have asbestos/cement pipes in their distribution system. A statewide waiver for groundwater and surface water sources has been approved for Asbestos by the EPA.

Significant Monitoring/Reporting violations for contaminants with an "*" are reported together as the Inorganic Contaminant (IOC) group.

SDWIS Codes		MCL (mg/R)	М	ICLs	Treatment Techniques		Significant Mor	itoring/Reporting
			Number of Violations	Number of Systems With Violations	Number of Violations	Number of Systems With Violations	Number of Violations	Number of Systems with Violations
	Inorganic Contaminants							
	IOC Group	N/A					2	2
1074	Antimony*	0.006	0	0				
1005	Arsenic*	0.05	0	0				
1094	Asbestos*	7 million fibers/R # 10 μm long	0	0				
1010	Barium*	2	0	0				
1075	Beryllium*	0.004	0	0				

SDWIS Codes		MCL (mg/R)	М	ICLs	Treatment	Techniques	Significant Mor	nitoring/Reporting
			Number of Violations	Number of Systems With Violations	Number of Violations	Number of Systems With Violations	Number of Violations	Number of Systems with Violations
1015	Cadmium*	0.005	0	0				
1020	Chromium*	0.1	0	0				
1024	Cyanide (as free cyanide)	0.2	0	0			8	8
1025	Fluoride*	4.0	0	0				
1035	Mercury*	0.002	0	0				
1040	Nitrate	10 (as Nitrogen)	0	0			138	138
1041	Nitrite	1 (as Nitrogen)	0	0			3	3
1045	Selenium*	0.05	0	0				
1085	Thallium*	0.002	0	0				
1038	Total nitrate and nitrite	10 (as Nitrogen)	0	0			141	141
	Subtotal		0	0			151	145

Radionuclides

Radionuclides are radioactive particles which can occur naturally in water or result from human activity. EPA has set legal limits on four types of radionuclides: radium-226, radium-228, gross alpha, and beta particle/photon radioactivity [40 CFR 141]. Violations for these contaminants are to be reported using the following three categories:

Gross alpha: SDWIS Contaminant Code 4000 for alpha radiation above MCL of 15 picocuries/liter (pCi/L). Gross alpha includes radium-226 but excludes radon and uranium.

Combined radium-226 and radium-228: SDWIS Contaminant Code 4010 for combined radiation from these two isotopes above MCL of 5 pCi/L.

Gross beta: SDWIS Contaminant Code 4101 for beta particle and photon radioactivity from man-made radionuclides above 4 millirem/year. NA - Systems using surface water sources serving more than 100,000 persons are required to monitor for Gross beta. No surface water systems in Vermont serve more than 100,000 persons.

The MCL for this group of contaminants is based on an annual average of four consecutive quarters. Routine monitoring/reporting violations were reported only for those systems which detected a contaminant during routine monitoring and failed to complete the required repeat monitoring.

SDWIS		MCL	M	1CLs	Treatment	Techniques	Significant Mon	Significant Monitoring/Reporting	
Codes		(mg/L)	Number of Violations	Number of Systems With Violations	Number of Violations	Number of Systems With Violations	Number of Violations	Number of Systems With Violations	
	Radionuclide MCLs								
4000	Gross alpha	15 pCi/L	0	0			5	5	
4010	Radium-226 and Radium-228	5 pCi/L	0	0			9	9	
4101	Gross beta	4 mrem/yr	NA	NA			0	0	
	Subtotal		0	0			14	14	

Total Coliform Rule

The Total Coliform Rule establishes regulations for microbiological contaminants in drinking water. These contaminants can cause short-term health problems. If no samples are collected during the one month compliance period, a significant monitoring violation occurs. States are to report four categories of violations:

Acute MCL violation: SDWIS Violation Code 21 indicates that the system found fecal coliform, or E. Coli, potentially harmful bacteria, in its water, thereby violating the rule.

Non-Acute MCL violation: SDWIS Violation Code 22 indicates that the system found total colifirm in samples of its water at a frequency or at a level that violates the rule. For systems collecting fewer than 40 samples per month, more than one positive sample for total coliform is a violation. For systems collecting 40 or more samples per month, more than 5% of the samples positive for total coliform is a violation.

Major routine and follow-up monitoring: SDWIS Violation Codes 23 AND 25 show that a system did not perform any monitoring. [One number is to be reported for the sum of violations in these two categories.]

Sanitary Survey: SDWIS Violation Code 28 indicates a major monitoring violation if a system fails to collect 5 routine monthly samples if a sanitary survey is not performed. NA - All surveys are conducted by the Water Supply Division.

SDWIS Codes		MCL (mg/L)	MCLs		Treatment Techn	iques	Significant Monitoring/Reporting	
			Number of Violations	Number of Systems With Violations	Number of Violations	Number of Systems With Violations	Number of Violations	Number of Systems With Violations
	Total Coliform Rule							
21	Acute MCL violation	Presence	13	13				
22	Non-acute MCL violation	Presence	125	93				
23, 25	Major routine and follow up monitoring						142	101
28	Sanitary survey						NA	NA
	Subtotal		138	106			142	101

Surface Water Treatment Rule

The Surface Water Treatment Rule establishes criteria under which water systems supplied by surface water sources, or ground water sources under the direct influence of surface water, must filter and disinfect their water [40 CFR 141, Subpart H]. Filtered Systems are water systems that have installed filtration treatment [40 CFR 141, Subpart H]. Unfiltered Systems are water systems that do not need to filter their water before disinfecting it because the source is very clean [40 CRR, Subpart H].

Violations of the "Surface Water Treatment Rule" are to be reported for the following four categories:

Monitoring, routine/repeat (for filtered systems): SDWIS Violation Code 36 indicates a system's failure to carry out required tests, or to report the results of those tests.

Treatment techniques (for filtered systems): SDWIS Violation Code 41 shows a system's failure to properly treat its water.

Monitoring, routine/repeat (for unfiltered systems): SDWIS Violation Code 31 indicates a system's failure to carry out required water tests, or to report the results of those tests.

Failure to filter (for unfiltered systems): SDWIS Violation Code 42 shows a system's failure to properly treat its water. Data for this violation code will be supplied to the states by EPA.

SDWIS Codes		MCL	MCLs		Treatment Tech	nniques	Significant Monito	ring/Reporting
		(mg/L)	Number of Violations	Number of Systems with Violations	Number of Violations	Number of Systems with Violations	Number of Violations	Number of Systems with Violations
	Surface Water Treatment Rule Filtered Systems							
36	Monitoring, routine/repeat						0	0
41	Treatment techniques				0	0		
	Unfiltered systems							
31	Monitoring, routine/repeat						0	0
42	Failure to filter				0	0		
	Subtotal				0	0	0	0

Lead and Copper Rule

The Lead and Copper Rule's purpose is to ensure that unhealthy levels of lead (Pb) and copper (Cu) are reduced through corrosion control of a water system. Systems identified as having corrosion problems are required to do follow-up monitoring and reporting.

Violations of the "Lead and Copper Rule" are to be reported for the following four categories:

Initial lead and copper tap monitoring/reporting: SDWIS Violation Code 51 indicates a system's failure to carry out an initial test on Pb/Cu. Follow-up or routine lead and copper tap monitoring/reporting: SDWIS Violation Code 52 indicates that periodic monitoring is not being done as required.

Treatment installation: SDWIS Violation Codes 58, 62 indicate treatment was not installed to mitigate high levels of Pb/Cu.

Public education: SDWIS Violation Code 65 indicates public education not done.

SDWIS Codes		MCL	MC	CLs	Treatment	Techniques	Significant Mor	nitoring/Reporting
		(mg/L)	Number of Violations	Number of Systems with Violations	Number of Violations	Number of Systems with Violations	Number of Violations	Number of Systems with Violations
	Lead and Copper Rule							
51	Initial lead and copper tap M/R						0	0
52	Follow-up or routine lead and copper tap M/R						11	10
58,62	Treatment Installation				1	1		
65	Public education				0	0		
	Subtotal				1	1	11	10

Consumer Confidence Report Rule

The Consumer Confidence Report (CCR) Rule requires Public Community Water Systems to issue an annual water quality report to their customers. The CCR for the previous calendar year must be distributed to customers by July 1st of each year. The reports tell where drinking water comes from, what's in it, and how you can help protect it. EPA classifies violations for failure to provide customers a CCR as a Significant Consumer Notification Violation.

SDWIS		Significant C	Consumer Notification
Codes		Number of Violations	Number of Systems With Violations
	CCR		
N/A	Failure to Issue CCR	32	32

Organic	Contaminants	Significant Monitoring/Report	Significant Monitoring/Reporting		
WSID	System Name	Constituent	Population Served		
5624	Allen Point Water System	Total Trihalomethanes	40		
5624	Allen Point Water System	Total Haloacetic acids	40		
5624	Allen Point Water System	VOC and SOC Group	40		
5624	Allen Point Water System	VOC and SOC Group	40		
5624	Allen Point Water System	VOC and SOC Group	40		
5624	Allen Point Water System	VOC and SOC Group	40		
5624	Allen Point Water System	VOC and SOC Group	40		
5298	Bellows Falls Water Dept	Total Trihalomethanes	3700		
5298	Bellows Falls Water Dept	Total Haloacetic acids	3700		
5499	Colonial Estates Water Corp.	VOC and SOC Group	200		
5339	Country Estates Water System	VOC and SOC Group	400		
5382	Edgemont Condominiums	VOC and SOC Group	134		
5152	Elmore Water Coop	VOC and SOC Group	75		
5152	Elmore Water Coop	VOC and SOC Group	75		
5152	Elmore Water Coop	VOC and SOC Group	75		
5152	Elmore Water Coop	VOC and SOC Group	75		
5152	Elmore Water Coop	VOC and SOC Group	75		
20901	HP Hood/Booth Brothers	VOC and SOC Group	60		
20901	HP Hood/Booth Brothers	VOC and SOC Group	60		

Organic	Contaminants	Significant Monitoring/Report	Significant Monitoring/Reporting		
WSID	System Name	Constituent	Population Served		
20545	Highlite Industrial Park	VOC and SOC Group	67		
20545	Highlite Industrial Park	VOC and SOC Group	67		
20545	Highlite Industrial Park	VOC and SOC Group	67		
6070	Jamaica Village School	VOC and SOC Group	110		
6719	Marlboro Elementary School	VOC and SOC Group	109		
5269	Marshfield Water System	VOC and SOC Group	350		
20604	Mountain Home Park	Total Trihalomethanes	700		
20604	Mountain Home Park	Total Trihalomethanes	700		
20604	Mountain Home Park	Total Trihalomethanes	700		
20604	Mountain Home Park	Total Haloacetic acids	700		
20604	Mountain Home Park	Total Haloacetic acids	700		
20604	Mountain Home Park	Total Haloacetic acids	700		
5281	Mountain Water Co	Total Trihalomethanes	700		
5281	Mountain Water Co	Total Haloacetic acids	700		
5643	North Montpelier Water Sys	VOC and SOC Group	44		
20874	Northern Power Systems	VOC and SOC Group	50		
20824	Otter Creek Development LLC	Total Trihalomethanes	135		
20824	Otter Creek Development LLC	Total Haloacetic acids	135		
5130	St Albans Water Dept	Total Trihalomethanes	9020		
5130	St Albans Water Dept	Total Haloacetic acids	9020		

Organic Contaminants		Significant Monitoring/Reporti	Significant Monitoring/Reporting		
WSID	System Name	Constituent	Population Served		
5130	St Albans Water Dept	Total Haloacetic acids	9020		
5130	St Albans Water Dept	Total Trihalomethanes	9020		
5314	Sonnenberg Water System	VOC and SOC Group	46		
20308	Starlake Village Leaseholders	VOC and SOC Group	50		
5001	Tri Town Water District	Total Trihalomethanes	3200		
5001	Tri Town Water District	Total Haloacetic acids	3200		
5284	Waterbury Village Water	Total Trihalomethanes	2600		
5284	Waterbury Village Water	Total Haloacetic acids	2600		
Total #	of Violations: 47	Total Population Served:	66,819		

Inorganic	Inorganic Contaminants		t/Monitoring/Reporting	Population	
WSID	System Name	Constituent		Served	
5624	Allen Point Water System	1024	Cyanide	40	
5624	Allen Point Water System	1040	Nitrate	40	
2637	Alpine Trails Lodge	1040	Nitrate	57	
20691	American Flatbread	1040	Nitrate	80	
20521	Avalanche Motel (w/Mikas Restaurant)	1040	Nitrate	150	
165	Back Behind Steak Saloon	1040	Nitrate	50	
525	BELLAS	1040	Nitrate	48	
20766	Best Diner	1040	Nitrate	31	
8129	Big D Campground	1040	Nitrate	200	
20714	Birch Ridge Inn	1040	Nitrate	30	
20474	Blue Spruce Inn	1040	Nitrate	57	
2812	Boonys Pub & Grill (The)	1040	Nitrate	96	
20901	Booth Brothers Wells/H P Hood	1041	Nitrite	60	
20901	Booth Brothers Wells/H P Hood	1024	Cyanide	60	
20901	Booth Brothers Wells/H P Hood	1040	Nitrate	60	
1652	Bromley View Inn	1040	Nitrate	110	
6069	Brookline Elementary School	1040	Nitrate	59	
2322	Bryant House	1040	Nitrate	74	
20873	Cameron Property	1040	Nitrate	110	

Inorganic	Inorganic Contaminants		Monitoring/Reporting	Population
WSID	System Name	Constituent		Served
6412	Camp Thoreau In Vermont	1040	Nitrate	200
8161	Campbells Bay	1040	Nitrate	133
3023	Carvey Family Restaurant	1040	Nitrate	85
226	Caseys Caboose	1040	Nitrate	124
473	Cedarwood	1040	Nitrate	100
963	Charitys	1040	Nitrate	122
1715	Chaunceys	1040	Nitrate	64
847	Christmas Tree Inn	1040	Nitrate	30
2091	Coach House Inn & River Bend Lodge	1040	Nitrate	100
1921	Cobbwebb (The)	1040	Nitrate	400
20642	Country Creemee	1040	Nitrate	40
20517	Country Pantry Restaurant	1040	Nitrate	110
2063	Crown Point Country Club	1040	Nitrate	95
20897	Dakin Farms	1040	Nitrate	38
5249	Deep Rock Water FD 8	1040	Nitrate	75
2793	Diner Soar Restaurant	1040	Nitrate	25
147	Dostals Lodge	1040	Nitrate	380
2518	Doveberry Inn	1040	Nitrate	47
20797	Dunkin Deacon (The)	1040	Nitrate	45
20509	Dunkin Donuts	1040	Nitrate	31

Inorganic	Inorganic Contaminants		Monitoring/Reporting	Population
WSID	System Name	Constituent		Served
20773	Eden Mini Mart/Uncle Bills Diner	1040	Nitrate	28
5152	Elmore Water Coop	1024	Cyanide	50
5152	Elmore Water Coop	1040	Nitrate	50
20646	Farm Resort	1040	Nitrate	25
673	Fleur De Lis Lodge	1040	Nitrate	40
808	Foggy Goggle (The)	1040	Nitrate	350
1892	Four Winds Country Motel	1040	Nitrate	87
1478	Frogs Leap Inn	1040	Nitrate	250
1783	Garden	1040	Nitrate	50
8234	Georgia NB Rest Area	1040	Nitrate	501
20542	Getaway Mountain & Campground	1040	Nitrate	200
479	Granma Frisbys	1040	Nitrate	50
642	Gray Ghost Inn	1040	Nitrate	150
20649	Green Mountain National Golf Course	1040	Nitrate	65
1573	Green Trails Inn	1040	Nitrate	25
20835	Groton Forest Road Campground	1040	Nitrate	50
20588	Harrys Cafe	1040	Nitrate	55
20927	Harveys Lake Campground	1040	Nitrate	50
1519	Hemingways Restaurant	1040	Nitrate	55
5240	Hemlock Ridge Condominium	1040	Nitrate	132

Inorganic	Inorganic Contaminants		/Monitoring/Reporting	Population
WSID	System Name	Constituent		Served
20802	Hidden Acres Campground	1040	Nitrate	80
20925	Hideaway Squirrel Hill EG	1040	Nitrate	160
4072	Highlander Motel (The)	1040	Nitrate	25
20698	Howard Johnson Motor Lodge	1040	Nitrate	25
163	Hunters an American Grill	1040	Nitrate	185
8290	Indian Bay	1040	Nitrate	26
20048	Inglenook Lodge	1040	Nitrate	48
160	Innsbruck Motor Inn	1040	Nitrate	40
4629	Iron Kettle Motel	1040	Nitrate	81
20629	Isle Lamotte School	1040	Nitrate	40
6070	Jamaica Village School	1024	Cyanide	110
20424	Jay Peak Inc Daycare	1040	Nitrate	25
3047	Judge Wilder Inn	1040	Nitrate	50
2111	Kicks Tavern Inc	1040	Nitrate	210
20890	Killington Village Properties Inc	1040	Nitrate	25
20707	L B Drive In	1040	Nitrate	50
2719	Lagasse's Steak House	1040	Nitrate	60
407	Lake House Inn	1041	Nitrite	50
2116	Landgrove Inn (The)	1040	Nitrate	100
1631	Lodge at Mount Snow	1040	Nitrate	100

Inorganic	Inorganic Contaminants		/Monitoring/Reporting	Population
WSID	System Name	Constituent		Served
1625	Lookout Bar & Grill	1040	Nitrate	72
4	Mad River Valley Center for the Arts	1040	Nitrate	360
2697	Magic Mountain	1040	Nitrate	500
2163	Main Street Pasta and Grille	1040	Nitrate	55
1728	Manchester Country Club	1040	Nitrate	120
518	Matterhorn (The)	1040	Nitrate	100
1124	Michaels On The Hill	1040	Nitrate	82
1534	Millbrook Inn	1040	Nitrate	25
8153	Mobile Acres Campground	1040	Nitrate	232
6708	Monkton Central School	1040	Nitrate	230
20640	Moose Horn Cafe	1040	Nitrate	26
20832	Moss Hollow Campground	1040	Nitrate	100
20753	Mount Tabor Inn & Tavern	1040	Nitrate	34
20662	Mountain Meadows XC Ski Resort	1040	Nitrate	56
2214	Mountain Pauls General Store	1040	Nitrate	39
1447	Mountaineer Lodge	1040	Nitrate	50
6605	Mt School @ Winhall/Community Ctr	1040	Nitrate	84
20607	Newport Country Club	1040	Nitrate	120
20664	Noodle Room (The)	1040	Nitrate	40
5308	North Westminster Water Co-op	1040	Nitrate	70

Inorganic	Inorganic Contaminants		/Monitoring/Reporting	Population
WSID	System Name	Constituent		Served
1127	Northern Lights Lodge	1040	Nitrate	300
20666	Okemo Inn	1040	Nitrate	25
20819	Old Homestead Community Center	1040	Nitrate	40
555	Pams Place	1040	Nitrate	35
8283	Patton Water System	1040	Nitrate	88
20667	Peppinos Ristorante Italiano	1040	Nitrate	88
20511	Pizza Chef	1040	Nitrate	42
8113	Pleasant Valley Camp	1040	Nitrate	122
2246	Prue Apartments	1040	Nitrate	25
20849	Putney Community Center	1040	Nitrate	62
4811	Red Sled Motel	1040	Nitrate	65
2249	River View Farm Drive-In	1040	Nitrate	25
20587	Rositas Mexican Restaurant	1040	Nitrate	70
560	Route 7 Restaurant & Pizzeria	1040	Nitrate	39
20657	Rustik Tavern	1040	Nitrate	38
5378	Rutland Town FD 6	1040	Nitrate	140
20067	Sandbagger Restaurant	1040	Nitrate	140
5267	Sandy Pines MHP	1040	Nitrate	100
544	Santa Fe Steakhouse	1040	Nitrate	144
5469	Shaftsbury Water System	1094	Asbestos	950

Inorganic	Inorganic Contaminants		Ionitoring/Reporting	Population
WSID	System Name	Constituent		Served
1603	Sherburne Valley Inn	1040	Nitrate	25
1877	Siebeness Lodge	1040	Nitrate	35
20677	Silo (The)	1040	Nitrate	90
2060	Sitzmark Lodge	1040	Nitrate	325
5478	Snow Creek Inn	1041	Nitrite	44
5314	Sonnenberg Water System	1024	Cyanide	46
5243	South Wallingford Co	1040	Nitrate	45
5243	South Wallingford Co	1024	Cyanide	45
20680	St Onges Hidden Country	1040	Nitrate	60
20308	Starlake Village Leaseholders Associatio	1024	Cyanide	50
1706	Stoddards Restaurant	1040	Nitrate	34
20520	Sugar Lodge	1040	Nitrate	75
1479	Sugartree Inn	1040	Nitrate	52
2004	Sunset Grill	1040	Nitrate	72
2141	TCS Tavern	1040	Nitrate	80
6764	Thetford Academy	1005	Arsenic	450
1784	Three Clock Inn	1040	Nitrate	56
5597	Trail Creek Condominium	1024	Cyanide	300
5597	Trail Creek Condominium	1040	Nitrate	300
20539	Trattoria La Festa & Toscana Country Inn	1040	Nitrate	110

Inorganic	Inorganic Contaminants Sign		t/Monitoring/Reporting	Population
WSID	System Name	Constitue	nt	Served
4434	Twin Brook Motel	1040	Nitrate	28
4708	Val Roc Motel	1040	Nitrate	96
20831	Valley Center Complex	1040	Nitrate	54
20888	Village Pantry Store & Deli	1040	Nitrate	44
8163	Warners Campground	1040	Nitrate	125
20674	Warren House	1040	Nitrate	120
1756	West Dover Inn & Gregorys Restaurant	1040	Nitrate	91
20	West Mountain Inn	1040	Nitrate	74
5207	Westfield FD 1	1040	Nitrate	120
2860	Willoughbys Rstrnt/Chuck Willoughbys Pub	1040	Nitrate	50
154	Willows (The)	1040	Nitrate	97
20864	Wilmington Village Pizza	1040	Nitrate	40
Total # of	Violations: 151		Total Population Served:	15,575

Radionu	clide	MCLs	
WSID	System Name	Constituent	Population Served
Total # of Violations: 0		Total Population Served: 0	

Radionuclide MCLs		Significant	Significant Monitoring/Reporting		
WSID	System Name	Constituer	ıt	Population	
5624	Allen Point Water System	4000	Gross Alpha	40	
5624	Allen Point Water System	4010	Radium-226 and radium-228	40	
5249	Deep Rock Water FD 8	4010	Radium-226 and radium-228	75	
5152	Elmore Water Coop	4000	Gross Alpha	50	
5152	Elmore Water Coop	4010	Radium-226 and radium-228	50	
5269	Marshfield Water System	4000	Gross Alpha	350	
5308	North Westminster Water Co-op	4010	Radium-226 and radium-228	70	
5243	South Wallingford Co	4000	Gross Alpha	45	
5243	South Wallingford Co	4010	Radium-226 and radium-228	45	
20308	Starlake Village Leaseholders Assoc.	4010	Radium-226 and radium-228	50	
5597	Trail Creek Condominium	4010	Radium-226 and radium-228	300	
5207	Westfield FD 1	4000	Gross Alpha	120	
5207	Westfield FD 1	4010	Radium-226 and radium-228	120	
5384	Whiffletree Condominium	4010	Radium-226 and radium-228	324	
Total # of Violations: 14		Total Popu	Total Population Served: 1,679		

Total Coliform Rule		MCLs	MCLs		
WSID	System Name	Constituer	ıt	Population Served	
20639	Airport Industrial Park Owners Associati	3100	Total Coliform	280	
20639	Airport Industrial Park Owners Associati	3100	Total Coliform	280	
5188	Albany Water System	3100	Total Coliform	200	
6077	Albert Bridge School	3100	Total Coliform	100	
6077	Albert Bridge School	3100	Total Coliform	100	
5208	Alpine Haven	3100	Total Coliform	400	
5208	Alpine Haven	3100	Total Coliform	400	
20202	Barnard Inn	3100	Total Coliform	74	
20729	BCMW & Associates	3100	Total Coliform	69	
20729	BCMW & Associates	3100	Total Coliform	69	
6680	Bingham Memorial School	3100	Total Coliform	110	
6680	Bingham Memorial School	3100	Total Coliform	110	
20790	Birch Landing Condominium	3100	Total Coliform	176	
1853	Blue Tooth (The)	3100	Total Coliform	110	
1853	Blue Tooth (The)	3100	Total Coliform	110	
1853	Blue Tooth (The)	3100	Total Coliform	110	
5170	Bradford Village Water System	3100	Total Coliform	2015	
5211	Brandon FD #1	3100	Total Coliform	4000	
6065	Brewster Pierce School	3100	Total Coliform	149	

Total Coliform Rule		MCLs	MCLs			
WSID	System Name	Constituen	t	Population Served		
5106	Canaan Water System	3100	Total Coliform	970		
20889	Castleton FD #3	3100	Total Coliform	350		
20870	Charlotte Senior Center	3100	Total Coliform	100		
5581	Chelsea Elderly Housing	3100	Total Coliform	28		
5582	Chelsea Family Housing	3100	Total Coliform	45		
8247	Chittenden Brook Campground	3100	Total Coliform	68		
20821	Clara Martin Center	3100	Total Coliform	30		
20847	Cobb Hill Co-Housing, Inc	3100	Total Coliform	41		
20847	Cobb Hill Co-Housing, Inc	3100	Total Coliform	41		
5640	Country Club Condominium	3100	Total Coliform	70		
20439	Covered Bridge Highland	3100	Total Coliform	85		
6685	Dover Elementary School	3100	Total Coliform	113		
5562	Eagles (The)	3100	Total Coliform	128		
5262	East Calais FD 1	3100	Total Coliform	200		
5220	Eastridge Acres Association	3100	Total Coliform	105		
20814	Eckerd Family Youth Alternative	3100	Total Coliform	59		
8148	Eden Lake Recreation	3100	Total Coliform	38		
5382	Edgemont Condominiums	3100	Total Coliform	134		
5052	Fernwood Manor MHP	3100	Total Coliform	250		
5556	Georgia Station	3100	Total Coliform	120		

Total Coliform Rule		MCLs	MCLs			
WSID	System Name	Constituen	ıt	Population Served		
5619	Glaze Brook	3100	Total Coliform	120		
2433	Golf Course	3100	Total Coliform	50		
20637	Grand Summit Hotel	3100	Total Coliform	800		
6622	Greenwood School	3100	Total Coliform	60		
6622	Greenwood School	3100	Total Coliform	60		
918	Grist Mill Restaurant	3100	Total Coliform	140		
8011	Groton Kettle Pond	3100	Total Coliform	310		
8022	Groton Stillwater	3100	Total Coliform	328		
1334	Hill Farm Inn	3100	Total Coliform	68		
5076	Huntington FD 1	3100	Total Coliform	125		
20779	Iroquois Land Family Camping	3100	Total Coliform	224		
20779	Iroquois Land Family Camping	3100	Total Coliform	224		
5537	Karme Choling	3100	Total Coliform	100		
20478	Killington Mall	3100	Total Coliform	392		
2338	Lake Bomoseen Inn	3100	Total Coliform	70		
20907	Lake Champlain Waldorf School	3100	Total Coliform	32		
20907	Lake Champlain Waldorf School	3100	Total Coliform	32		
6687	Lamoille Union USD 18	3100	Total Coliform	1000		
6687	Lamoille Union USD 18	3100	Total Coliform	1000		
6687	Lamoille Union USD 18	3100	Total Coliform	1000		

Total Coliform Rule		MCLs	MCLs			
WSID	System Name	Constituen	t	Population Served		
5598	Ledges System 1	3100	Total Coliform	252		
6098	Leicester Central School	3100	Total Coliform	115		
6098	Leicester Central School	3100	Total Coliform	115		
6098	Leicester Central School	3100	Total Coliform	115		
1934	Macartney House	3100	Total Coliform	68		
849	Mad River Barn	3100	Total Coliform	150		
20703	Mad River Green Shopping Center	3100	Total Coliform	152		
5580	Merrimac MHP System 2	3100	Total Coliform	42		
20830	Montshire Museum of Science	3100	Total Coliform	300		
5613	Mount Mansfield Spruce Peak	3100	Total Coliform	1537		
5166	Mount Mansfield Toll House	3100	Total Coliform	900		
5329	Mountain View Acres	3100	Total Coliform	65		
20872	Newmont Slate Company	3100	Total Coliform	30		
20872	Newmont Slate Company	3100	Total Coliform	30		
20872	Newmont Slate Company	3100	Total Coliform	30		
20872	Newmont Slate Company	3100	Total Coliform	30		
6702	Newton Elementary School	3100	Total Coliform	170		
6702	Newton Elementary School	3100	Total Coliform	170		
6702	Newton Elementary School	3100	Total Coliform	170		
9010	North Star Lodge	3100	Total Coliform	210		

Total Coliform Rule		MCLs	MCLs			
WSID	System Name	Constituen	t	Population Served		
9010	North Star Lodge	3100	Total Coliform	210		
8358	Okemo Mountain Inc	3100	Total Coliform	3000		
20091	Ormsby Hill Water System	3100	Total Coliform	28		
8131	Otter Creek Campground	3100	Total Coliform	148		
20382	P & H Truckstop Inc	3100	Total Coliform	79		
20555	Putney Paper Mill	3100	Total Coliform	70		
5344	Ran-Mar Corp MHP	3100	Total Coliform	40		
5344	Ran-Mar Corp MHP	3100	Total Coliform	40		
8244	Red Mill Brook Campground	3100	Total Coliform	124		
5426	Richmond FD 1	3100	Total Coliform	70		
5426	Richmond FD 1	3100	Total Coliform	70		
8167	Running Bear Campground	3100	Total Coliform	428		
8167	Running Bear Campground	3100	Total Coliform	428		
5482	Rutland Town FD 10	3100	Total Coliform	84		
20368	Saputo Cheese USA Inc	3100	Total Coliform	150		
5314	Sonnenberg Water System	3100	Total Coliform	46		
5094	St George Estates Coop Water Assoc	3100	Total Coliform	72		
5094	St George Estates Coop Water Assoc	3100	Total Coliform	72		
5093	St George FD 1	3100	Total Coliform	45		
5046	St Johnsbury Center FD 1	3100	Total Coliform	370		

Total Coliform Rule		MCLs	MCLs			
WSID	System Name	Constituen	t	Population Served		
5046	St Johnsbury Center FD 1	3100	Total Coliform	370		
6087	Stockbridge Central School	3100	Total Coliform	100		
5133	Sunset Terrace Estates	3100	Total Coliform	70		
5571	Telemark Village	3100	Total Coliform	123		
20602	Three Stallion Inn Inc	3100	Total Coliform	188		
20602	Three Stallion Inn Inc	3100	Total Coliform	188		
20602	Three Stallion Inn Inc	3100	Total Coliform	188		
779	Trailside Lodge	3100	Total Coliform	152		
779	Trailside Lodge	3100	Total Coliform	152		
5637	Tuckerville MHP	3100	Total Coliform	60		
550	Tyler Place	3100	Total Coliform	250		
59	Valhalla Motel	3100	Total Coliform	25		
4696	Vergennes Motor Inn	3100	Total Coliform	30		
20898	Vermont Castings Foundry Water System	3100	Total Coliform	157		
20898	Vermont Castings Foundry Water System	3100	Total Coliform	157		
20898	Vermont Castings Foundry Water System	3100	Total Coliform	157		
6696	Waits River Valley School	3100	Total Coliform	338		
1805	Waitsfield Inn (The)	3100	Total Coliform	48		
6664	Warren Elementary School	3100	Total Coliform	220		
5169	Waterville FD 1	3100	Total Coliform	84		

Total Coliform Rule		MCLs	MCLs			
WSID	System Name	Constituer	nt	Population Served		
5169	Waterville FD 1	3100	Total Coliform	84		
5169	Waterville FD 1	3100	Total Coliform	84		
5169	Waterville FD 1	3100	Total Coliform	84		
5169	Waterville FD 1	3100	Total Coliform	84		
5169	Waterville FD 1	3100	Total Coliform	84		
5169	Waterville FD 1	3100	Total Coliform	84		
5353	West Fairlee MHP	3100	Total Coliform	50		
5207	Westfield FD 1	3100	Total Coliform	120		
5306	Westminster Aqueduct Society	3100	Total Coliform	150		
5306	Westminster Aqueduct Society	3100	Total Coliform	150		
20833	Westshire Elementary School	3100	Total Coliform	115		
20687	White Pine Lodge	3100	Total Coliform	32		
20687	White Pine Lodge	3100	Total Coliform	32		
5186	Williamstown Water Dept	3100	Total Coliform	950		
6457	Windridge Tennis Camp	3100	Total Coliform	150		
4313	Windsor Motel	3100	Total Coliform	36		
5631	Woods	3100	Total Coliform	210		
5404	Woodside Manor	3100	Total Coliform	200		
1263	Yankee Village Motel	3100	Total Coliform	41		
Total # of V	iolations: 138	Total Popu	Total Population Served: 33,994			

Total Coliform Rule		Significant Monitoring/Reporting		
WSID	System Name	Constituent		Population Served
20639	Airport Industrial Park Owners Assoc.	3100	Total Coliform	280
5137	Alburg Fire District #1	3100	Total Coliform	91
5208	Alpine Haven	3100	Total Coliform	400
211	Arlington Plaza Water System	3100	Total Coliform	25
5256	Berlin MHP	3100	Total Coliform	70
5255	Berlin Water	3100	Total Coliform	200
20900	BGS Day Care	3100	Total Coliform	31
6658	Burke Town School	3100	Total Coliform	225
5280	Butternut Hill	3100	Total Coliform	30
6009	Camp Thorpe	3100	Total Coliform	82
5335	Chalet Village	3100	Total Coliform	88
20821	Clara Martin Center	3100	Total Coliform	30
20383	Community Early Learning Center	3100	Total Coliform	42
20383	Community Early Learning Center	3100	Total Coliform	42
944	Corners Inn	3100	Total Coliform	40
196	Cortina Inn & Resort	3100	Total Coliform	360
5339	Country Estates Water Co Inc	3100	Total Coliform	400

Total Coliform Rule		Significant Mo	Significant Monitoring/Reporting		
WSID	System Name	Constituent		Population Served	
6452	Coutts Moriarty 4H Camp	3100	Total Coliform	96	
5264	Crystal Springs Water System	3100	Total Coliform	500	
5264	Crystal Springs Water System	3100	Total Coliform	500	
20732	CW Mulholland Well #3	3100	Total Coliform	75	
5249	Deep Rock Water FD 8	3100	Total Coliform	75	
20838	Deerfield Valley Health Center	3100	Total Coliform	85	
20389	Deerpath School	3100	Total Coliform	20	
20389	Deerpath School	3100	Total Coliform	20	
20626	Duxbury Moretown FD1	3100	Total Coliform	200	
5646	Eagle Rise The Village	3100	Total Coliform	144	
5021	East Dorset FD 1	3100	Total Coliform	280	
5220	Eastridge Acres Association	3100	Total Coliform	105	
6765	Eden Central School	3100	Total Coliform	180	
1516	Four Columns Inn	3100	Total Coliform	75	
20567	General Services Complex Middlesex	3100	Total Coliform	60	
5619	Glaze Brook	3100	Total Coliform	120	
1170	Glen House	3100	Total Coliform	130	
5248	Graniteville FD 4	3100	Total Coliform	700	
20723	Green Mountain MHP	3100	Total Coliform	105	
20723	Green Mountain MHP	3100	Total Coliform	105	

Total Coliform Rule		Significant Mor	Significant Monitoring/Reporting		
WSID	System Name	Constituent		Population Served	
6622	Greenwood School	3100	Total Coliform	60	
5111	Guildhall Water System	3100	Total Coliform	100	
5240	Hemlock Ridge Condominium	3100	Total Coliform	132	
20545	Highlite Industrial Park	3100	Total Coliform	67	
5076	Huntington FD 1	3100	Total Coliform	125	
5153	Hyde Park FD 1	3100	Total Coliform	150	
5154	Hyde Park Water System	3100	Total Coliform	450	
8291	Indian Point	3100	Total Coliform	52	
6070	Jamaica Village School	3100	Total Coliform	110	
6070	Jamaica Village School	3100	Total Coliform	110	
20826	Killington Snowmobile Tours	3100	Total Coliform	38	
20377	Landmark College	3100	Total Coliform	550	
5085	Larned Water System	3100	Total Coliform	110	
5085	Larned Water System	3100	Total Coliform	110	
5085	Larned Water System	3100	Total Coliform	110	
5085	Larned Water System	3100	Total Coliform	110	
5085	Larned Water System	3100	Total Coliform	110	
5085	Larned Water System	3100	Total Coliform	110	
5085	Larned Water System	3100	Total Coliform	110	
5085	Larned Water System	3100	Total Coliform	110	

Total Coliform Rule		Significant Mon	Significant Monitoring/Reporting		
WSID	System Name	Constituent		Population Served	
5085	Larned Water System	3100	Total Coliform	110	
5085	Larned Water System	3100	Total Coliform	110	
5007	Lazy Brook MHP	3100	Total Coliform	205	
6098	Leicester Central School	3100	Total Coliform	115	
5362	Locust Hill MHP	3100	Total Coliform	54	
8350	Long Point	3100	Total Coliform	375	
8350	Long Point	3100	Total Coliform	375	
8350	Long Point	3100	Total Coliform	375	
8350	Long Point	3100	Total Coliform	375	
5023	Manchester MHP	3100	Total Coliform	86	
1135	Marble Island Resort	3100	Total Coliform	150	
1135	Marble Island Resort	3100	Total Coliform	150	
1135	Marble Island Resort	3100	Total Coliform	150	
1135	Marble Island Resort	3100	Total Coliform	150	
20743	Marlboro College	3100	Total Coliform	387	
5269	Marshfield Water System	3100	Total Coliform	350	
6708	Monkton Central School	3100	Total Coliform	230	
6708	Monkton Central School	3100	Total Coliform	230	
5125	Montgomery Center Water System	3100	Total Coliform	530	
5575	Moon Ridge Condominium	3100	Total Coliform	94	

Total Coliform Rule		Significant Monitoring/Reporting		
WSID	System Name	Constituent		Population Served
5395	Morristown FD 1	3100	Total Coliform	85
5577	Mountain Side Condominium	3100	Total Coliform	99
5577	Mountain Side Condominium	3100	Total Coliform	99
5601	Murray Hill	3100	Total Coliform	150
5643	North Montpelier Water System	3100	Total Coliform	44
5643	North Montpelier Water System	3100	Total Coliform	44
5643	North Montpelier Water System	3100	Total Coliform	44
5643	North Montpelier Water System	3100	Total Coliform	44
5643	North Montpelier Water System	3100	Total Coliform	44
5643	North Montpelier Water System	3100	Total Coliform	44
5308	North Westminster Water Co-op	3100	Total Coliform	70
20874	Northern Power Systems	3100	Total Coliform	50
20874	Northern Power Systems	3100	Total Coliform	50
20874	Northern Power Systems	3100	Total Coliform	50
5167	Notch Brook Subdivision	3100	Total Coliform	96
6674	Orange Center School	3100	Total Coliform	138
5584	Parson Hill Partnership	3100	Total Coliform	52
6660	Peacham Elementary School	3100	Total Coliform	103
5648	Pittsford FD 1	3100	Total Coliform	96
6665	Pownal Elementary School	3100	Total Coliform	400

Total Coliform Rule		Significant Mon	Significant Monitoring/Reporting		
WSID	System Name	Constituent		Population Served	
5228	Proctor Water Dept	3100	Total Coliform	2500	
5344	Ran-Mar Corp MHP	3100	Total Coliform	40	
5028	Readsboro Village	3100	Total Coliform	440	
5028	Readsboro Village	3100	Total Coliform	440	
5379	Rhodeside Acres	3100	Total Coliform	60	
5426	Richmond FD 1	3100	Total Coliform	70	
20673	Roadhouse	3100	Total Coliform	88	
20885	Rutland Town FD 4	3100	Total Coliform	150	
20885	Rutland Town FD 4	3100	Total Coliform	150	
5378	Rutland Town FD 6	3100	Total Coliform	140	
5378	Rutland Town FD 6	3100	Total Coliform	140	
20385	Sewards Sales & Service Inc	3100	Total Coliform	43	
5469	Shaftsbury Water System	3100	Total Coliform	950	
5602	Shelburne Farms	3100	Total Coliform	92	
5602	Shelburne Farms	3100	Total Coliform	92	
5583	Smith Haven Center	3100	Total Coliform	25	
408	Smoke Rise Farm Diner	3100	Total Coliform	80	
4479	South Gate Motel	3100	Total Coliform	50	
5243	South Wallingford Co	3100	Total Coliform	45	
5243	South Wallingford Co	3100	Total Coliform	45	

Total Coliform Rule		Significant Monitoring/Reporting		
WSID	System Name	Constituent		Population Served
5243	South Wallingford Co	3100	Total Coliform	45
5243	South Wallingford Co	3100	Total Coliform	45
5243	South Wallingford Co	3100	Total Coliform	45
6080	Sunderland Elementary School	3100	Total Coliform	88
6080	Sunderland Elementary School	3100	Total Coliform	88
5589	Sundown Two Trees	3100	Total Coliform	100
5535	Sunny Acres Development Water Assoc Inc	3100	Total Coliform	50
1883	Three Mountain Lodge	3100	Total Coliform	80
20399	US Samica Corp	3100	Total Coliform	45
5626	Valley Park Condominium	3100	Total Coliform	67
6667	Waterford Elementary School	3100	Total Coliform	150
6667	Waterford Elementary School	3100	Total Coliform	150
5207	Westfield FD 1	3100	Total Coliform	120
6085	Weybridge Elementary School	3100	Total Coliform	88
5384	Whiffletree Condominium	3100	Total Coliform	324
5384	Whiffletree Condominium	3100	Total Coliform	324
5216	Whispering Pines MHP	3100	Total Coliform	36
5216	Whispering Pines MHP	3100	Total Coliform	36
5216	Whispering Pines MHP	3100	Total Coliform	36
5216	Whispering Pines MHP	3100	Total Coliform	36

Total Coliform Rule		Significant Monitoring/Reporting		
WSID	System Name	Constituent		Population Served
8279	Willoughby Lake Water Works	3100	Total Coliform	41
2860	Willoughbys Rstrnt/Chuck Willoughbys Pub	3100	Total Coliform	50
20775	Willows MHP	3100	Total Coliform	48
1263	Yankee Village Motel	3100	Total Coliform	41
1263 Yankee Village Motel		3100	Total Coliform	41
Total # of Violations: 142		Total Population Served: 23,052		

Surface Water Treatment Rule		Significant Monitoring/Reporting		
WSID	System Name	Constituent	Population Served	
Total # of Violations: 0		Total Population Served:		

Lead and Copper Rule		Significant Monitoring/Reporting		
WSID	System Name	Constituent		Population Served
5624	Allen Point Water System	5000	Lead & Copper Rule	40
20901	Booth Brothers Wells/H P Hood	5000	Lead & Copper Rule	60
5024	Bromley Water Co	5000	Lead & Copper Rule	1304

Lead and Copper Rule		Significan	Significant Monitoring/Reporting		
WSID	System Name	Constitue	nt	Population Served	
2327	Jessar's Commons	5000	Lead & Copper Rule	29	
1135	Marble Island Resort	5000	Lead & Copper Rule	150	
6605	Mt School @ Winhall/Community Ctr	5000	Lead & Copper Rule	84	
20874	Northern Power Systems	5000	Lead & Copper Rule	50	
20874	Northern Power Systems	5000	Lead & Copper Rule	50	
20831	Valley Center Complex	5000	Lead & Copper Rule	54	
20898	Vermont Castings Foundry Water System	5000	Lead & Copper Rule	157	
20387	West River Montessori School	5000	Lead & Copper Rule	32	
Total # of Violations: 11			Total Population Served: 2,010		

Consumer Confidence Report Rule		Significant Consumer Notification	
WSID	System Name	Notification	Population Served
1135	Marble Island Resort	Consumer Confidence Report	150
5012	Whiting Water Corp	Consumer Confidence Report	70
5026	Lampman Water System	Consumer Confidence Report	133
5028	Readsboro Village	Consumer Confidence Report	440
5094	St. George Estates Coop	Consumer Confidence Report	72

Consumer Confidence Report Rule		Significant Consumer Notification	
WSID	System Name	Notification	Population Served
5111	Guildhall Water System	Consumer Confidence Report	100
5152	Elmore Water Coop	Consumer Confidence Report	50
5169	Waterville FD 1	Consumer Confidence Report	84
5207	Westfield FD 1	Consumer Confidence Report	120
5216	Whispering Pines MHP	Consumer Confidence Report	36
5238	Pico Village Water Corp	Consumer Confidence Report	180
5240	Hemlock Ridge Condominium	Consumer Confidence Report	132
5243	South Wallingford Co	Consumer Confidence Report	45
5247	Websterville FD 3	Consumer Confidence Report	420
5269	Marshfield Water System	Consumer Confidence Report	350
5303	Vermont Academy	Consumer Confidence Report	350
5306	Westminster Aqueduct	Consumer Confidence Report	150
5331	Eatons MHP	Consumer Confidence Report	60
5378	Rutland Town FD 6	Consumer Confidence Report	140
5384	Whiffletree Condominiums	Consumer Confidence Report	324
5395	Morristown FD 1	Consumer Confidence Report	85
5517	Pownal FD 3	Consumer Confidence Report	44
5555	West Burke Housing	Consumer Confidence Report	32
5577	Mountain Side Condominiums	Consumer Confidence Report	99
5619	Glaze Brook	Consumer Confidence Report	120

Consumer Confidence Report Rule		Significant Consumer Notification	
WSID	System Name	Notification	Population Served
5633	Intervale at Stratton	Consumer Confidence Report	350
5643	North Montpelier Water System	Consumer Confidence Report	44
20308	Starlake Village Leaseholders	Consumer Confidence Report	50
20570	Southeast State Correctional	Consumer Confidence Report	133
20790	Birch Landing Condominium	Consumer Confidence Report	176
20889	Castleton FD #3	Consumer Confidence Report	350
20917	Jackson Gore - Okemo	Consumer Confidence Report	1,695
Total # of Violations: 32		Total Population Served: 6269	

-End of Report-